

IN THE SPECIFICATION

Page 4, last paragraph, please change to read as follows:

FIGS. 4A - 4K4J are waveforms illustrating delivery of a current where the circuit shown in FIG. 1 is operated in a current regulated mode from a power source having a constant value.

Page 11, last paragraph, please change to read:

As shown in FIG. 4A, the voltage across capacitor 24 is charged to a constant value at a time t_1 . At a time interval $t_3 - t_4$ indicated in FIG. 4B, the controller 26 causes the switches 42 and 44 to close, determining the polarity of a pulse to be delivered to the patient. The controller 26 also causes the current command circuit 62 to provide the waveform indicated in FIG. 4D at the time interval $t_3 - t_4$ to be applied to the inverting input of amplifier U1, thus applying a current to the patient R_p during the time interval $t_3 - t_4$ of the waveform as shown in FIG. 4E. Next, at a time interval $t_5 - t_6$ as indicated in FIG. 4C, the controller 26 causes the switches 46 and 48 to close, determining the polarity of the pulse to be delivered to the patient to be opposite the polarity of the pulse previously applied during the time interval $t_3 - t_4$. The controller 26 concurrently causes the current command circuit 62 to provide the waveform indicated in FIG. 4D at the time interval $t_5 - t_6$ to be applied to the inverting input of amplifier U1, thus applying a current of the waveform shown in FIG. 4E at the time interval $t_5 - t_6$ to the patient who is represented by the

resistance R_p . Where Q_1 is operated so as to remain in a linear region, the current waveform I_p through the patient R_p will follow the voltage waveform V_c . Thus, current waveforms, such as for example, a one-half sine waveform, FIG. 4F, a truncated exponential waveform, FIG. 4G, a damped sine waveform, FIG. 4H, a rectangular waveform, FIG. 4J, and a rounded rectangle waveform, FIG. 4K, may be generated. A person skilled in the art will recognize that where a controlled current mono-phasic waveform is desired, the controller 26 may be appropriately programmed to cause only one of switch pair 42 and 44 or switch pair 46 and 48 to close and to cause an appropriate voltage waveform to be applied as V_c . Thus, both monophasic and biphasic pulses are regulated by the present invention.